Weather Company Data - Enhanced Forecast | When Will It Rain - v1

Domain Portfolio: Forecast | Domain: Short-Range Forecast | Usage Classification: **Limited Availability**

Standard HTTP Cache-Control headers are used to define caching length. The TTL value is provided in the HTTP Header as an absolute time value using the “Expires” parameter. Example: “Expires: Fri, 12 Jul 2013 12:00:00 GMT”. The response provides a data element expire_time_gmt, this should be used to expire and remove a record from your system.

Geography: Global **Attribution Required:** NO **Attribution Requirements:** N/A

Overview

The When Will It Rain Forecast API provides a weather forecast over the next 6 hours based upon data from the Precipitation Events forecast. The Precipitation Events Forecast API provides a weather forecast for precipitation events (rain, snow, sleet, freezing rain) onset and offset times for 28 time steps over the next 7 hours.

HTTP Headers and Data Lifetime - Caching and Expiration

For details on appropriate header values as well as caching and expiration definitions, please see **The Weather Company Data | API Common Usage Guide**.

Translated Fields:

This TWC API handles the translation of phrases. However, when formatting a request URL a valid language must be passed along (see the language code table for the supported codes).

- phrase
- phrase_template
- precip_day
- terse_phrase
- terse_phrase_template
- time_zone_abbrev

Unit of Measure Requirement

The unit of measure for the response. The following values are supported:

- e = English units
- m = Metric units
- h = Hybrid units (UK)

URL Construction

Atomic API URL Examples:	**Aggregate Product Name**	v2fcstwwir
Request by Geocode (Latitude & Longitude): Required Parameters: language, format, units, geocode, postal code apiKey=**yourApiKey**		
https://api.weather.com/v1/geocode/34.063/-84.217/forecast/wwir.json?language=en-US&units=e&apiKey=yourApiKey		
Request by Postal Code: Required Parameters: language, format, units, geocode, postal code apiKey=**yourApiKey** The Postal Code has a TWC proprietary location type (4) with the following format: location/<postal code>:<location type>:<country code>		
https://api.weather.com/v1/location/30075:4:US/forecast/wwir.json?language=en-US&units=e&apiKey=yourApiKey		

Data Elements & Definitions

Note: Field names are sorted alphabetically in the table below for presentation purposes. The table below does not represent the sort order of the API response.

Field Name	Description	Type	Range	Sample	Nulls Allowed
class	Data identifier	string		fod_short_range_wwir	N
fcst_valid	The time the forecast is valid. Top of current hour, or bottom of current hour if minute > 30	epoch		1369252800	N
fcst_valid_local	The time the forecast is valid in location local time. Top of current hour, or bottom of current hour if minute > 30	ISO	YYYY-MM-DDTHH:MM:SS-NNNN; NNNN=GMT offset	2014-08-20T10:47:59-0500	N
overall_type	A number corresponding to the precipitation type used to create the weather phrase. To be used for display of accompanying simple icon; 0 = none, 1 = rain, 2 = snow, 3 = mix, 4 = thunder	integer	0 - 4	2	N
phrase	The phrase that expresses the next point in time that precipitation of a given type will begin or end. Uses basic time notation that does not include day or time zone abbreviation, but will use 24hr or 12hr clock depending on convention for supplied locale_cd.	string		Expect occasional snow to begin at 8:15pm.	N
phrase_template	The template for the phrase allowing the user to customize the time expression. Uses Mustache-style (http://mustache.github.io/) syntax.	string		Expect occasional snow to begin {{day}} at {{time}}.	N
precip_day	The day of week parameter which includes a trailing space character. Can be NULL if no precipitation begin or end event detected in forecast period.	string		Wednesday	Y
precip_time_12hr	The time parameter expressed in a 12-hour clock convention. Can be NULL if no precipitation begin or end event detected in forecast period.	string		8:15 PM	Y
precip_time_24hr	The time parameter expressed in a 24-hour clock convention. Can be NULL if no precipitation begin or end event detected in forecast period.	string		20:15	Y
precip_time_iso	The time parameter expressed in the ISO standard. Precipitation begin or end time is provided in ISO standard to to allow complete flexibility of time expression per application. Can be NULL if no precipitation begin or end event detected in forecast period.	ISO	YYYY-MM-DDTHH:MM:SS-NNNN; NNNN=GMT offset	2014-08-20T10:47:59-0500	Y
terse_phrase	The terse phrase that expresses the next point in time that precipitation of a given type will begin or end. Uses basic time notation that does not include day or time zone abbreviation, but will use 24hr or 12hr clock depending on convention for supplied locale_cd.	string		Snow beginning at 8:15 pm.	N
terse_phrase_template	The template version of the terse phrase allowing the user to customize the time expression. Uses Mustache-style (http://mustache.github.io/) syntax.	string		Snow beginning {{day}} at {{time}}.	N
time_zone_abbrv	The time zone abbreviation parameter that can be added as a suffix to the time parameter.	string		EST	N

JSON Sample


```
{
   "metadata": {
      "language": "en-US",
      "transaction_id": "1473206131834:-1726618965",
      "version": "1",
      "latitude": 34.06,
      "longitude": -84.21,
      "units": "e",
      "expire_time_gmt": 1473206600,
      "status_code": 200
   },
   "forecast": {
      "class": "fod_short_range_wwir",
      "expire_time_gmt": 1473206600,
      "fcst_valid": 1473206400,
      "fcst_valid_local": "2016-09-06T20:00:00-0400",
      "overall_type": 0,
      "phrase": "Expect dry conditions over the next six hours.",
      "terse_phrase": "Dry conditions will continue.",
      "phrase_template": "Expect dry conditions over the next six hours.",
      "terse_phrase_template": "Dry conditions will continue.",
      "precip_day": null,
      "precip_time_24hr": null,
      "precip_time_12hr": null,
      "precip_time_iso": null,
      "time_zone_abbrv": "EDT"
   }
}
```